1/18																	
	PACK HEADER SIZE 51	TIME STAMP DATA SIZE 52	TRAN PORT PACK SIZE	F T S S S S S S S S S S S S S S S S S S	TIME STAMP /ALUE N SECTOR	LAST TIME STAMP VALUE IN SECTOR 55	FIRST END ACCESS POSITION POINT OF PAIR 56 OF TIME STAMP		POSITION FLAG 58 ORT		URE TION	PICTURE HEAD POSITION FLAG 59	CIPHER INFOR- MATIO 60	-			
1	INTRA-SECTOR COMMON SEARCH INFORMATION 42 BITMAP INFORMATION PERTAINING													\exists			
(b)																	
(c)	AREA	AREA HEADER AR					PACK HEADER 13	DATA AREA NO. 3		PACK HEADER 14		DATA AREA NO. 4	\	DATA R ARE NO.	Α		
(d)	SECTOR NO. 0	SE NC	CTOR		SEC NO.	SECTOR NO. 3			SECTOR NO. 4				SECTOR NO. 5				
(e)		AREA HEADER A		EA	PACK HEADER 12	DATA AREA NO. 2	PACK HEADER 13	ARE	DATA PAREA H		K DATA DER AREA NO. 4		A HEADI	DAT ER ARE NO.	Α		
		NO. U TI TO. T TE													_		
(f)	DATA A	NS- PA	_	TIME	TRANS	- TRANS- TRANS					- TIME TRANS-						
(g)	DODT INC			STAM 1a	P PORT PACKI 1a	STAM ET 1b	P PORT PACKE 1b	т		ORT ACKET	1		2a F	ORT ACKET a			
4. 1		5//+000		STREAM OBJECT (SOB) #B299													
(h) SO	B#A298			, ,		STREAM	OBJE	<u></u>	(000					_		
(i)	STR (SO	EAM BL BU) #α	OCK		\$7 (\$	TREAM B OBU) #/	LOCK 3	STREAM (SOBU)					AM BLOC J) #γ				
(j)	DATA	AREA N	0. 1		DATA	AREA N	VO. 33]	•••		DATA AREA NO. 321						
(k	TIME	TRANS PORT PACKE 1a	1	P	ORT S	STAMP P 33a F	RANS- PORT PACKET			TRAM POR PACI 320k	r KET	TIME STAM 321a [297]	TRANS PORT PACKE 321a	AREA			
											7	\					
(1	STREAM FIRST SECOND STREAM STREAM BLOCK SIZE BLOCK SIZE 260 261 [=32 SECTORS]								I SIZ TO	ST BL DI	FFER	M TIME RENCE D≒28-	S B D	ITH TREAM LOCK T IFFEREN BLANK]			
ſ	m)				T	IME STA	MP INFO	RMAT	ION	252							
1	/								_								

FIG.1

OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT HEET <u>2</u> OF <u>18</u>



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ROOT DIRECTORY 100

SUBDIRECTORY 101

DVD_RTR DIRECTORY (DVD_RTAV) 102

DATA FILE 103

RTR. IFO (VR_MANGR. IFO; NAVIGATION DATA) 104

STREAM. IFO (SR_MANGR. IFO/SR_MANGR.BUP) (NAVIGATION DATA) 105

SR_PRIVT. DAT/SR_PRIVT. BUP (NAVIGATION DATA UNIQUE TO APPLICATION) 105a

STREAM. VRO (SR_TRANS. SRO) (STREAM DATA) 106

RTR_MOV. VRO (VR_MOVIE. VRO; MOVIE REAL-TIME VIDEO OBJECT) 107

RTR_STO. VRO (VR_STILL. VRO; STILL PICTURE REAL-TIME VIDEO OBJECT) 108

RTR_STA. VRO (VR_AUDIO. VRO; AUDIO OBJECT OF POSTRECORDED AUDIO, ETC.) 109

SUBDIRECTORY 110

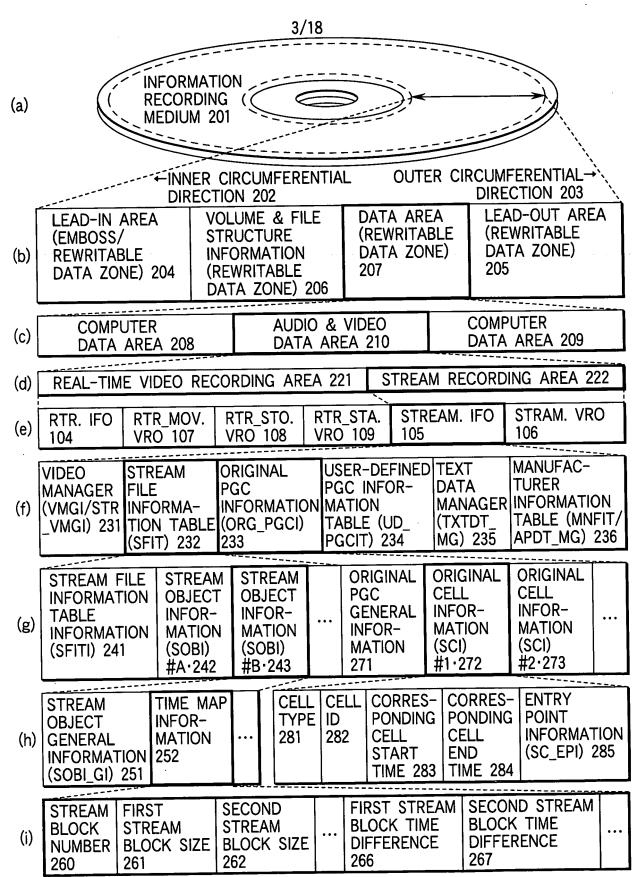
VIDEO_TS (VIDEO TITLE SET) 111

AUDIO_TS (AUDIO TITLE SET) 112

SUBDIRECTORY FOR SAVING COMPUTER DATA 113

OBLON ET AL (703) 413-3000 DOCKET # 197393US2S CONT SHEET <u>3</u> OF <u>18</u>

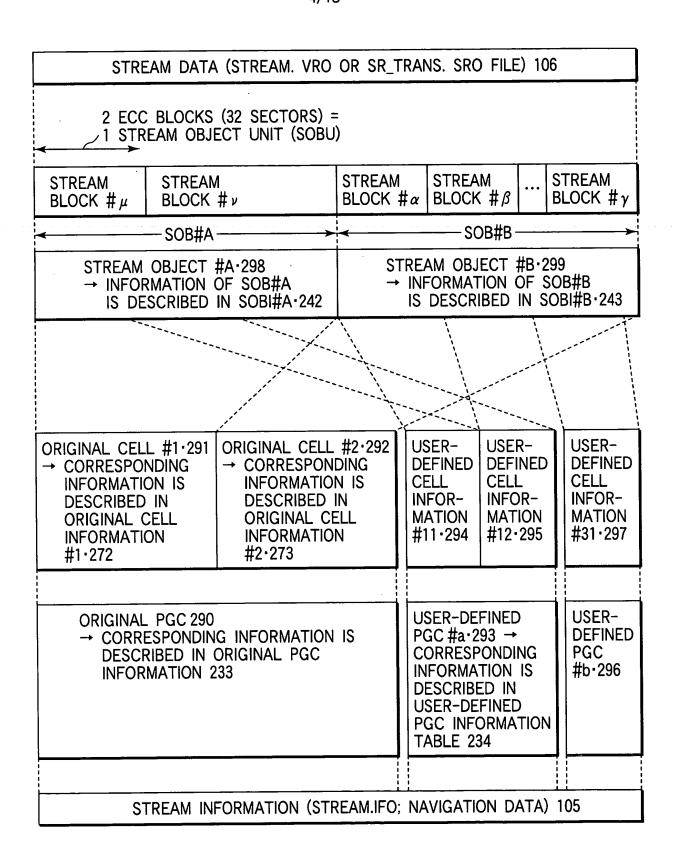




OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT SHEET _4_ OF _18_

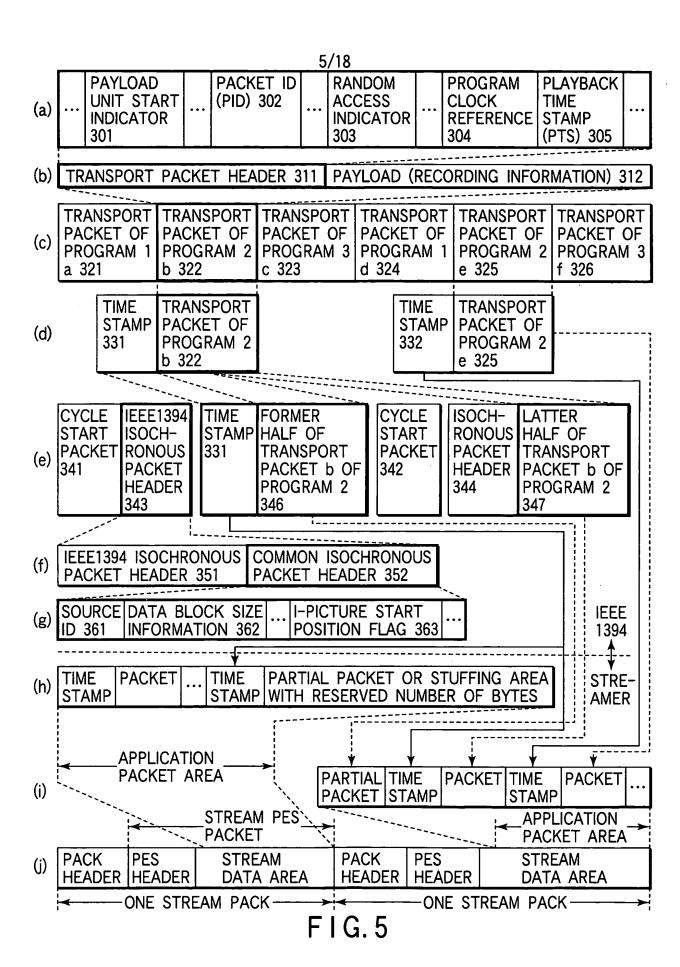


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F I G. 4

OBLON ET AL (703) 413-3000— OCKET # 197393US2S CONT SHEET _5_ OF _18_



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OBLON ET AL (703) 413-3000 DOCKET # 197393US2S CONT SHEET _6_ OF__18_

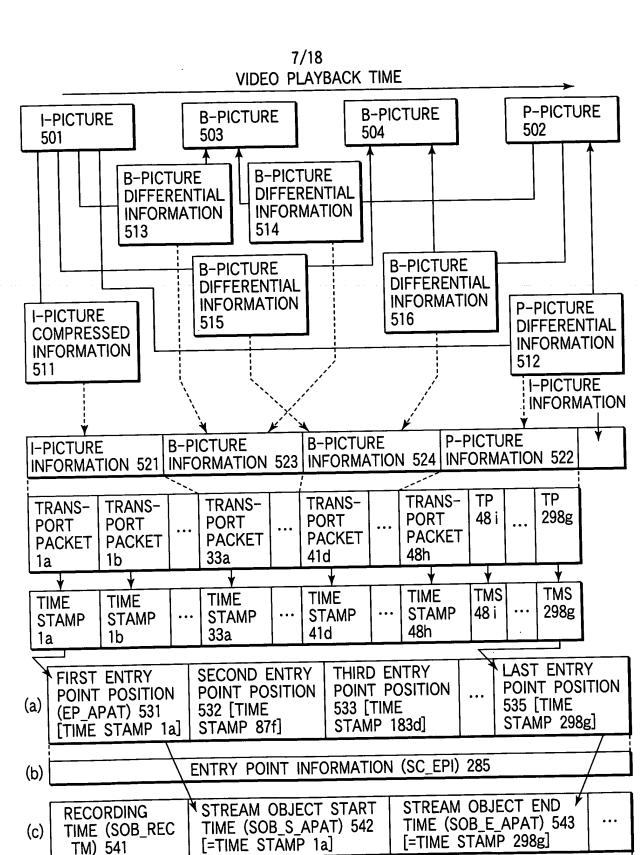
T

6/18 STREAM OBJECT (SOB) #B299 **SOB#A298** (a) STREAM BLOCK STREAM BLOCK STREAM BLOCK (b) (SOBU) $\#\gamma$ (SOBU) $\#\beta$ (SOBU) $\#\alpha$ DATA AREA DATA AREA DATA AREA (c) NO. 321 NO. 33 NO. 1 TIME TRANS-PAD-TRANS-TRANS-TRANS-ITIME TIME TRANS-STAMPIPORT DING STAMP **PORT STAMPIPORT PORT** PORT (d) PACK-321a PACK-**IAREA** PACK-1a [0] IPACK-PACK-33a ET 320k[[297] ET 321a|21 ET 33a ET 32i [28] ET 1a SECTOR SECTOR 30 32 SECTORS 32 SECTORS (e) **SECTORS** NO. n-1 NO. n (2 ECC BLOCKS) (2 ECC BLOCKS) APPLICATION PACKET AREA **APPLICATION** APPLI-STUFF-APPLI-PES SUB-**PACK** ING **PACKET** CATION **HEADER** STREAM CATION **HEADER BYTE GROUP WITH HEADER** HEADER ID (f) **APPLICATION** EXTEN-TIME STAMP SION **ATS** (OPTION) STREAM PACK -(2,048 BYTES = SECTOR SIZE)STREAM PES PACKET (2,034 BYTES) STREAM DATA AREA (2,027 BYTES) STREAM PES PACKET **PADDING PACK PACK** (g) **HEADER PACKET HEADER** PADDING AREA 21 (h)APPLICATION PACKET AREA ZERO BYTE DATA FOR **ATS** APPLI-**PES** SUB-**PACK** 2,014 BYTES **HEADER STREAM** CATION **HEADER** (i) **HEADER** ID FIRST STUFFING PACKET (WITH ATS) ZERO BYTE DATA FOR 2,018 BYTES SUCCEEDING STUFFING PACKET (WITHOUT ATS)

F I G. 6

(d)

OBLON ET AL (703) 413-3000 DOCKET # 197393US2S CONT SHEET _7_ OF__18_



F I G. 7

STREAM OBJECT INFORMATION GENERAL INFORMATION (SOBI_GI) 251

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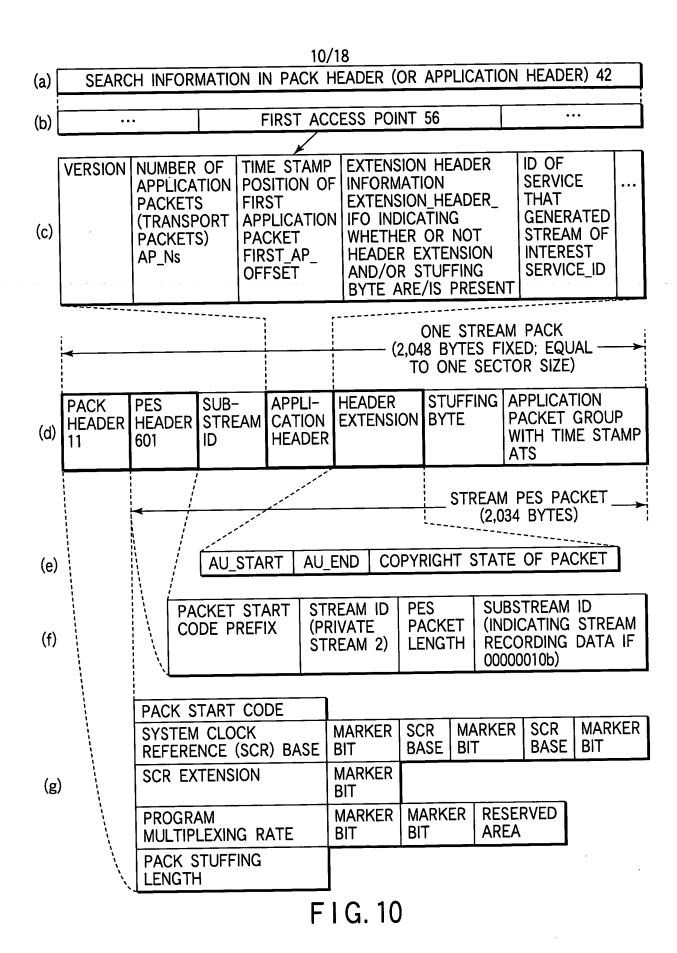
8/18 STREAM BLOCK SOBU # y SOBU #B STREAM BLOCK (SOBU) # \lambda (a) (SOBU) # a LAST PACKET ARRIVAL TIME TIME STAMP TMS INDICATING (SOBU_E_APAT) OF SOBU# \(\lambda\) FIRST PACKET ARRIVAL TIME PADDING AREA 21 (SOBU_S_APAT) OF SOBU $\#\alpha$ LAST PACKET ARRIVAL TIME (SOBU_E_APAT) OF SOBU $\#\alpha$ LAST TMS TMS **TMS** TMS TMS TP/ TIME 321a TP/ TMS 98a 65a STAMP AP 33a 300a [297] AΡ [98] 1a [63] (b) [0] [28] [300] TMS 1a TRANSPORT PACKET TP (APPLICATION PACKET AP) 1a CALCULATION TIME DIFFERENCE TIME DIFFERENCE **METHOD** VALUE 252 NUMBER TMS33a-TMS1a 30 = ROUND [28-0]≒30 **FIRST** INFORMATION (ROUNDED VALUE) SOBU# α TMS65a-TMS33a = ROUND [63-30]≒40 **SECOND** (ROUNDED VALUE) SOBU# B TMS98a-TMS65a (c) = ROUND [98-40-30]≒30 THIRD (ROUNDED VALUE) MAP SOBU# γ TIME TIME **BLANK** LAST SOBU# \(\lambda\) CALCULATION TIME DIFFERENCE TIME DIFFERENCE METHOD **VALUE** NUMBER TMS33a-TMS1a 30 = ROUND [28-0]≒30 **FIRST** (ROUNDED VALUE) INFORMATION SOBU# a TMS65a-TMS33a = ROUND [63-30]≒40 **SECOND** (ROUNDED VALUE) SOBU# B TMS98a-TMS65a (d) 30 = ROUND [98-40-30]≒30 **THIRD** (ROUNDED VALUE) SOBU# y MAP TMS300a-TMS321a TIME 10 = ROUND [300-297]≒10 LAST OR [300-300+10]≒10 SOBU# \lambda

FIG.8

OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT SHEET _9_ OF18_								
0./10								

								9/18												
(a)	STREAM BLOCK (SOBU) #γ					STREAM BLOCK (SOBU) #δ				•	STREAM BLOCK (SOBU) $\#\eta$			STREAM BLOCK (SOBU) # θ						
(b)	SIZE = 16 (OR 32) SECTORS					SIZE = 16 (32) SECTORS				·	SIZE = 16 (32) SECTORS				SIZE = 16 (OR 32) SECTORS					
(c)	TIME DIFFE- RENCE = 30					TIME DIFFE- RENCE = 40					TIME RENO		FFE- = 40	TIME DIFFE- RENCE = 30						
(d)	SECTOR NO. 87					SECTOR NO. 97			•	•	SECTOR NO. 224			SEC NO.						
(e)		TMS 87f			• 1	TMS 97c			•	••				TMS 225d		TMS 298				
	TIME STAMP (TMS) 1a																			
		- 1		STREAM OBJECT			STREAM OBJECT START TIME TIME STAMP (SOB_S_APAT) 542 (TMS) 1a													
	EFORE FDASE	EKAS	INFC (SOE	ORMAT 31)	ION	STREAM OBJECT END TIME TIME STAMP (SOB_E_APAT) 543 (TMS) 298g							4	_						
(k)	STATE B		ORIO CELI	GINAL		CORRESPONDING CELL START TIME STAMP (TMS) 1a														
	ST			PRMAT	TION	CORRESPONDING CELL END TIME (SC_E_APAT) 284							TIME STAMP (TMS) 298g							
(f)	STR # y	REA	M E	BLOCK		STREAM BLOCK STREAM #η					/I B	LOCK	STRE #θ	AM E	3LO	CK				
(g)	SIZE = 16					SIZE = 16 32) SECTORS					ZE = 2) SE		ORS	SIZE = 16 (32) SECTORS						
(h)	TIME DIFFERENCE					TIME DIFFERENCE .				ł .	ME D 40	IFF	ERENCE	TIME DIFFERENCE = 30						
		_										۔۔۔۔ ای	ECTOR	QE(TOP	$\overline{}$				
(i)	SECTOR NO. 87			SECTOR NO. 97							O. 224	SECTOR NO. 225			•••					
(j)	TMS 87f			TMS 97c							TMS 224k	TMS 225d		<u> </u>	•••					
			STREAM OBJECT			STREAM OBJECT START TI (SOB_S_APAT) 542					RT TIM	T TIME TIME ST. (TMS) 87								
	FER	ERASE	INF (SO	INFORMATION (SOBI)										-	+					
(1)	ATE A	RTIAL	ORI	INFORMATION (SOBI) ORIGINAL CELL INFORMATION			CORRESPONDING CELL START TIME STAMP TIME (SC_S_APAT) 283 (TMS) 97c							-						
	ST	PA	INF (SC	ORMA (1)	TION							G. 9								
						TIME (00_E_/11/11/ E01 (11/10/														

OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT SHEET 10 OF 18



OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT HEET _11_ OF_18_

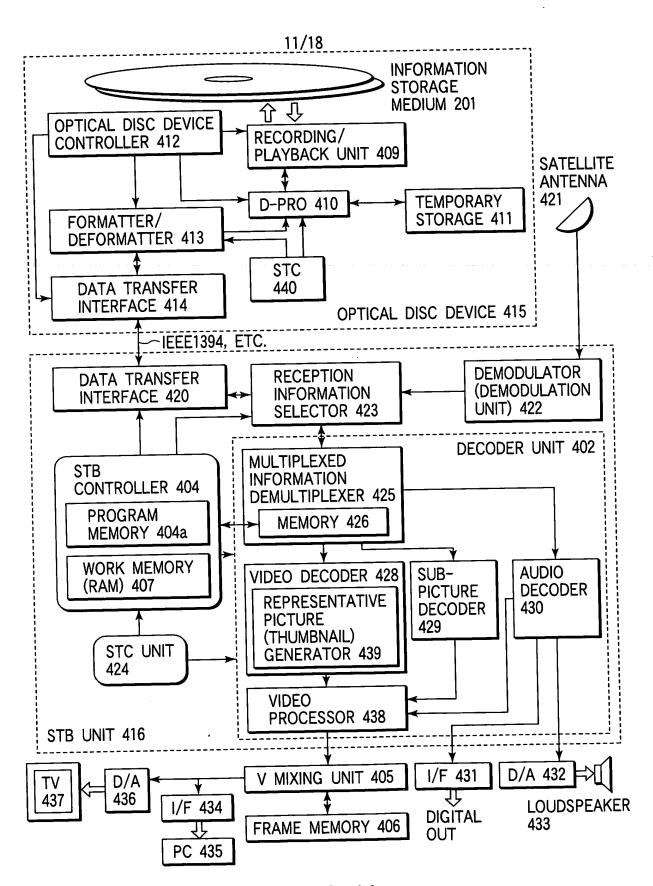


FIG. 11

CKET # 197393US2S CONT SHEET _12_ OF_18_

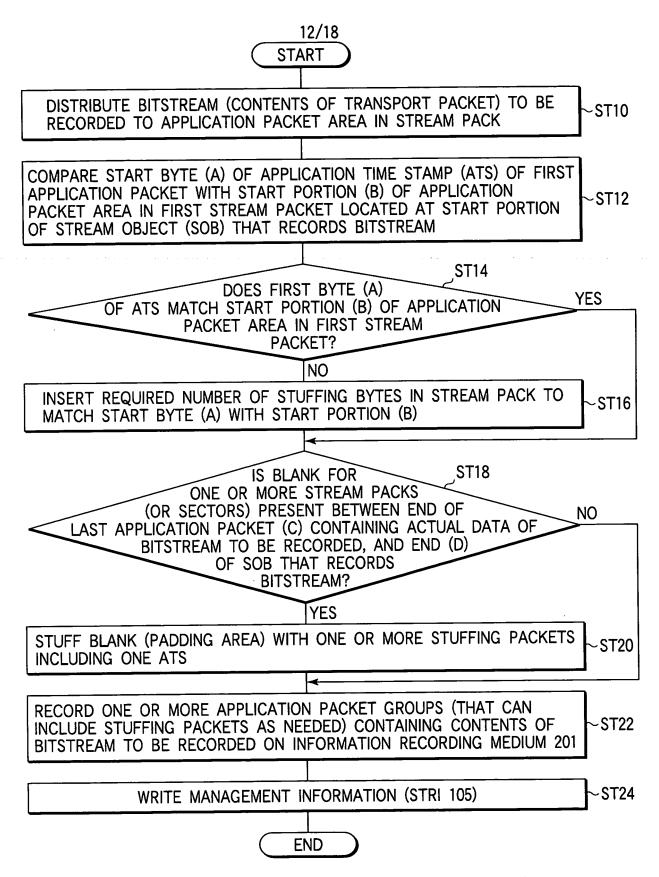
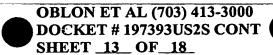
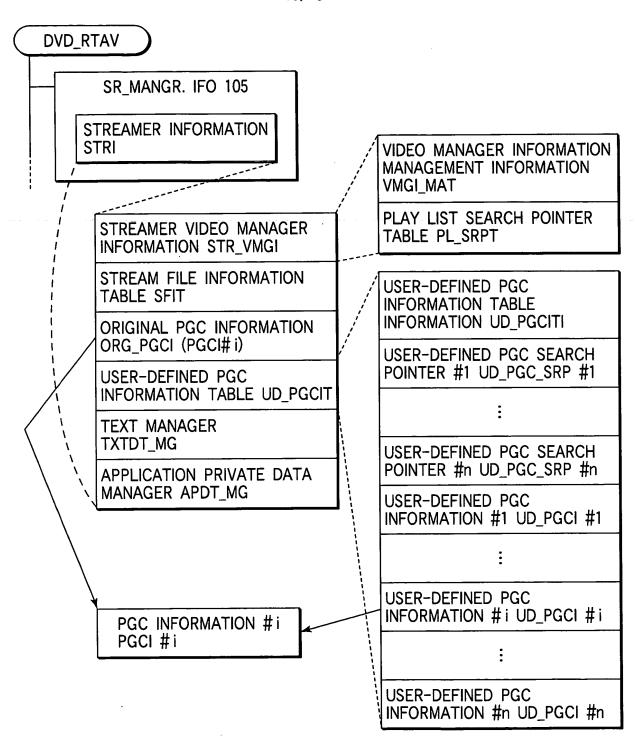


FIG. 12





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OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT HEET _14_ OF__18_

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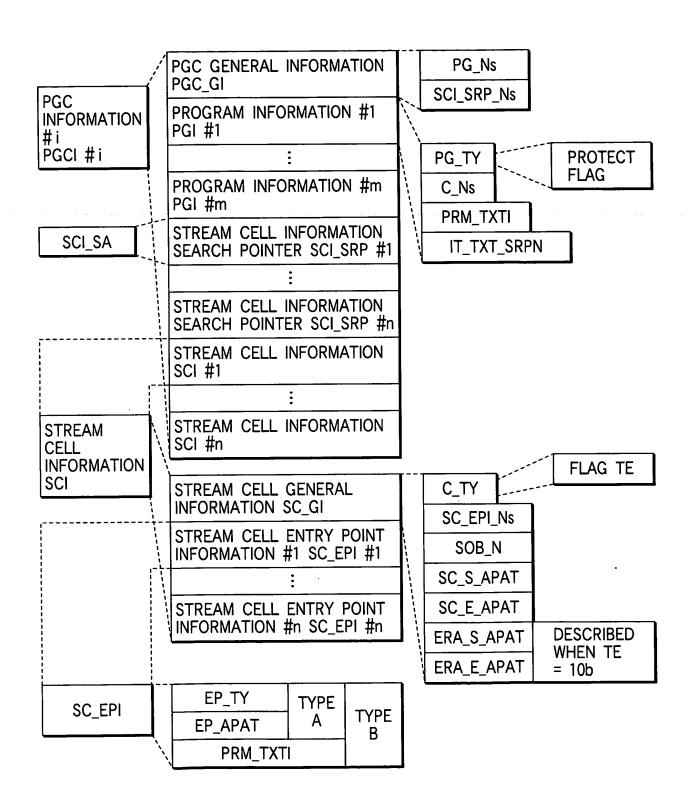


FIG. 14

OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT SHEET _15_ OF _18_

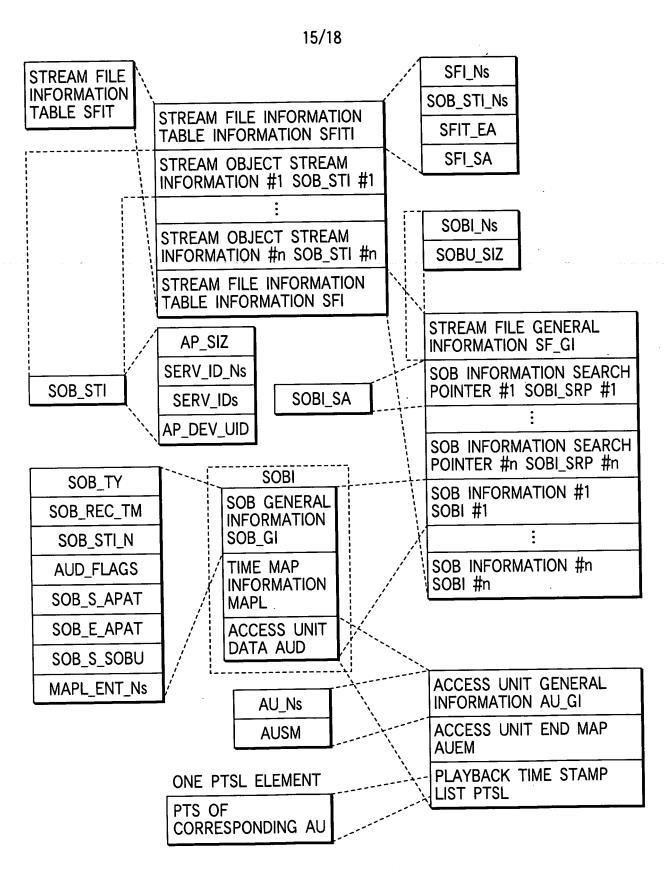


FIG. 15

PADDING)

OBLON ET AL (703) 413-3000 OCKET # 197393US2S CONT SHEET <u>16</u> OF <u>18</u>

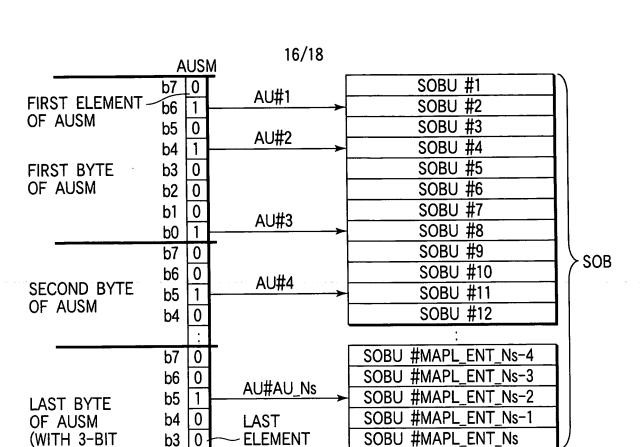


FIG. 16

OF AUSM

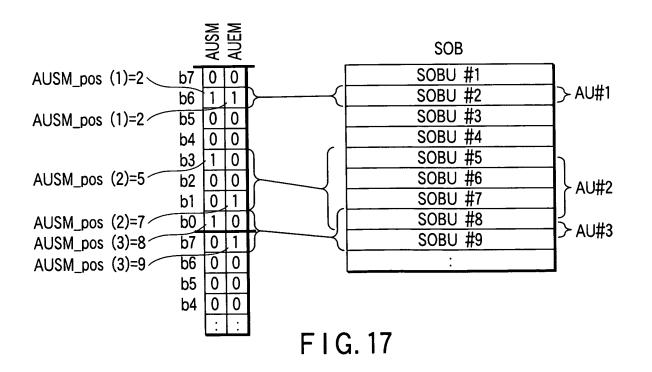
PADDING

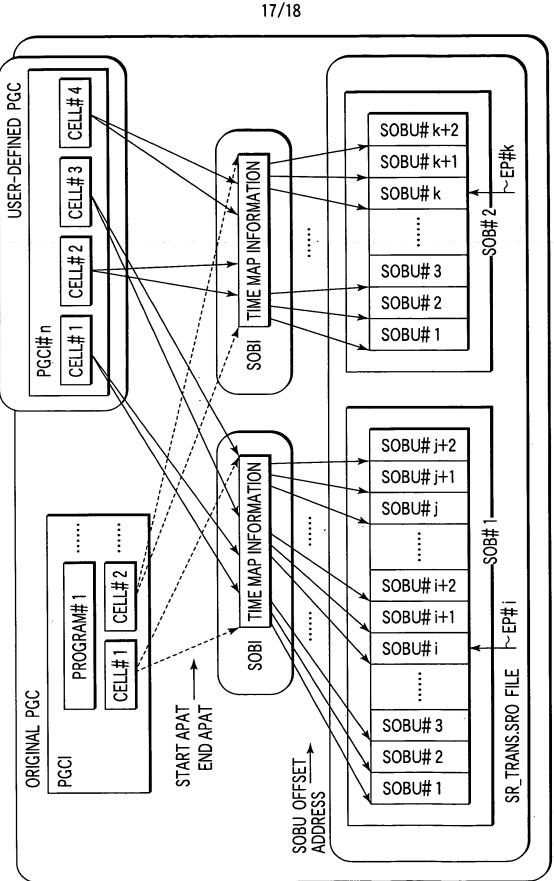
BIT

b2 0 0

b1

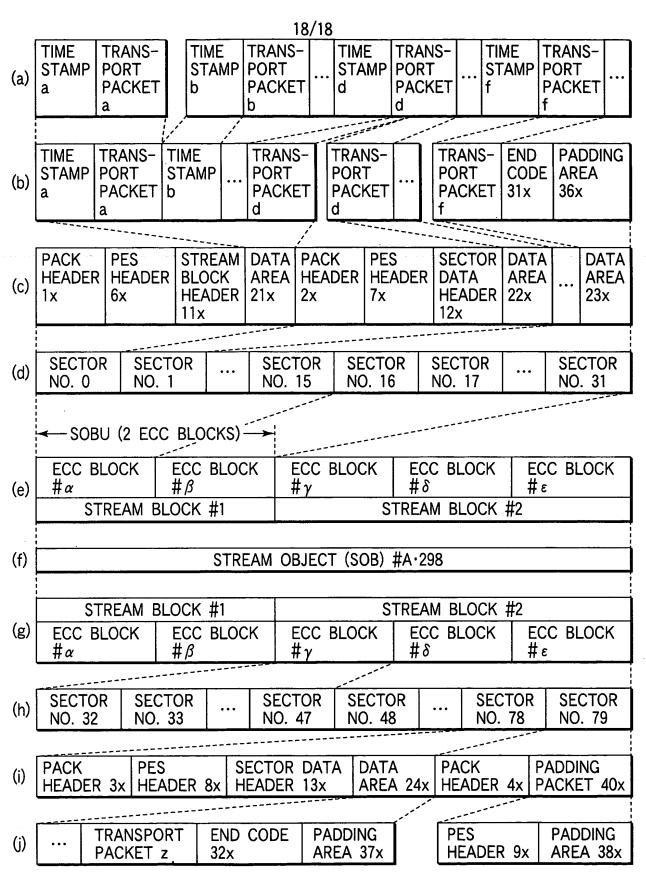
0 b0





F1G. 18

OBLON ET AL (703) 413-3000 DOCKET # 197393US2S CONT SHEET _18_ OF__18_



F I G. 19